

Amendments to the Specification

Please amend the paragraph beginning on page 1, line 19 as follows:

One prior art sensor provides a three-piece stainless steel pressure sensor, which requires two pieces to be welded together and then crimped into a metal housing with an o-ring seal. However, the welding and crimping process add cost, and the o-ring seal cannot seal high pressures. The fluid is in contact with the weld which may present corrosion issues. Also, the o-ring limits the amount of pressure that can be applied.

Please amend the paragraph starting on page 6, line 12 as follows:

The length of the knurl, especially in materials that work harden, such as plain steel, is an important factor as to the ease of the press fit assembly process. As material is deformed, the deformation makes the material harder and increases its strength. Therefore as the material moves when the knurl presses into it, it will locally increase in strength and the more it presses ~~thru~~ through, the more material gets deformed in front of it making it harder and harder to press as it goes in. Some materials will react differently, based on their material properties and therefore, they may not be optimal for press fits greater than a certain length. The present invention uses hardened stainless steel for the port and aluminum for the housing, which readily deforms.

Please amend the paragraph starting on page 6, line 22 as follows:

In operation, the top side of the pressure port 10 contains an integral diaphragm 24 that is exposed to the ambient pressure inside the pressure sensor module. A piezo-resistive transducer deposited in silicon is bonded to the diaphragm 24, to ~~measuring~~ measure pressure relative to the atmospheric pressure surrounding it. The bottom of the port 26 is coupled to the fluid to be measured. In a transmission fluid application, the pressure range that the bottom of the ~~part~~ port 26 is exposed to is a standard pressure that is used in transmission ducting, and can vary from 0 to 70 Bar gauge pressure. However, it should be recognized that the pressure sensor assembly of the present invention can be used in various pressure applications including engine oil pressure, braking systems, fuel injection systems, and the like.